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cc

ATTORNEY DOCKET NO. 14014.0252U3  
PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of	)	
	)	
Chiorini <i>et al.</i>	)	Art Unit: 1633
	)	
Application No. 10/719,311	)	Examiner: Kaushal, S.
	)	
Filing Date: November 20, 2003	)	Confirmation No. 3284
	)	
For: AAV4 VECTOR AND USES THEREOF	)	

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

NEEDLE & ROSENBERG, P.C.  
Customer Number 36339

Sir:

Pursuant to the requirements of 37 C.F.R. § 1.56, submitted herewith on the accompanying Supplemental Information Disclosure Statement List is a listing of documents known to Applicants and/or their attorneys. In accordance with 37 C.F.R. § 1.98(a)(2), copies of any cited U.S. patent or U.S. patent application publication documents are not enclosed. Copies of any cited foreign patent document and/or any non-patent publication are enclosed.

In accordance with the provisions of M.P.E.P. § 2001.06(b) and 37 C.F.R. § 1.98(b)(3), Applicants would like to bring to the attention of the Examiner the existence of the co-pending patent application(s) identified below, which were filed in the United States Patent and Trademark Office:

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**ATTORNEY DOCKET NO. 14014.0252U3**  
**Application No. 10/719,311**

	<u>Application No.</u>	<u>Date Filed</u>	<u>Inventors</u>	<u>Attorney Docket No.</u>
1.	*10/557,662	Nov 21, 2005	Bossis	14014.0412U2
2.	*10/581,228	Jun 2, 2006	Chiorini	14014.0417U2

The pending application(s) identified with an asterisk (\*) are stored in the Image File Wrapper (IFW) system of the USPTO. Accordingly, copies of the cited specification(s), including the claims and drawings thereof, are not enclosed in accordance with the waiver to 37 CFR 1.98(a)(2)(iii) dated September 21, 2004.

Consideration of the cited documents and making the same of record in the prosecution of the above-referenced application are respectfully requested.

This Information Disclosure Statement is believed to be filed in a timely manner pursuant to 37 C.F.R. § 1.97(c), in that neither a final Office Action nor a Notice of Allowance has been mailed to Applicants. Accordingly, Applicants enclose the fee required under 37 C.F.R. § 1.97(c)(2)



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Application No. 10/719,311

Credit Card Payment Form PTO-2038 authorizing payment in the amount of \$180.00, representing the fee under 37 C.F.R. § 1.17(p), is enclosed. This amount is believed to be correct; however, the Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-0629.

Respectfully submitted,  
NEEDLE & ROSENBERG, P.C.

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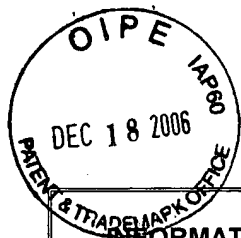
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CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

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ATTORNEY DOCKET NO.: 14014.0252U3

APPLICATION NO.: 10/719,311

SHEET 1 OF 15

# INFORMATION DISCLOSURE STATEMENT LIST

(Use as many sheets as necessary)

Complete if Known

Application Number	10/719,311
Filing Date	November 20, 2003
First Named Inventor	Chiorini et al.
Group Art Unit	1633
Examiner Name	Kaushal, S.

## U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	Document No.	Date	Name	Class	Subclasses	Filing Date (if appropriate)
	B1	6,146,874	Nov 14 2000	Zolotukhin et al.			
	B2	6,180,613	Jan 30 2001	Kaplitt et al.			
	B3	6,221,349	Apr 24 2001	Couto et al.			
	B4	6,309,634	Oct 30 2001	Bankiewicz et al.			
	B5	6,391,858	May 21 2002	Podsakoff et al.			
	B6	6,485,976	Nov 26 2002	Nadler et al.			
	B7	6,855,314	Feb 15 2005	Chiorini et al.			
	B8	6,984,517	Jan 10 2006	Chiorini et al.			
	B9	2002/0076754 A1	Jun 20 2002	Sun et al.			
	B10	2003/0228282 A1	Dec 11 2003	Gao et al.			
	B11	2004/0110266 A1	Jun 10 2004	Chiorini et al.			
	B12	2004/0115789 A1	Jun 17 2004	Meruelo et al.			
	B13	2005/0255089 A1	Nov 17 2005	Chiorini et al.			

## FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code	Date	Name	Translation Yes/No
	B14	DE 44 36 664 A1	Jul 04 1996	Heilbronn, R.	YES
	B15	EP 1 310 571	May 14 2003	Gao et al.	
	B16	WO 1993/24641 A	Dec 09 1993	Carter et al.	
	B17	WO 1995/11997 A	May 04 1995	Kern et al.	
	B18	WO 1996/15777 A	May 30 1996	Wiener et al.	
	B19	WO 1997/06272	Feb 20 1997	Natsoulis, Georges	
	B20	WO 1998/41240 A	Sept 24 1998	High et al.	
	B21	WO 1998/45462 A	Oct 15 1998	Ciliberto et al.	
	B22	WO 1999/61601 A	Dec 02 1999	Chiorini et al.	
	B23	WO 2000/26254	May 11 2000	Kleinschmidt, et al.	NO (ISR attached)
	B24	WO 2000/28061	May 18 2000	Wilson et al.	
	B25	WO 2001/70276 A	Sep 27 2001	Chiorini et al.	
	B26	WO 2001/83692	Nov 08 2001	Hildinger et al.	
	B27	WO 2003/093479	Nov 13 2003	Muzyczka et al.	
	B28	WO 2004/11272A	Dec 29 2004	Avigen, Inc. et al.	
	B29	WO 2005/017101	Feb 24 2005	Bossis et al.	

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				Group Art Unit	1633
				Examiner Name	Kaushal, S.
	B30	WO 2005/056807 A	Jun 23 2005	Chiorini et al.	
	B31	WO 2006/029196	Mar 16 2006	Chiorini et al.	
	B32	WO 2006/119432	Nov 09 2006	Schmidt et al.	
NON-PATENT DOCUMENTS					
Examiner's Initials	Cite No.	Non-Patent Citations (include Author, Title, Publisher, Relevant Pages, Date and Place of Publication)			
	B33	Alexander et al., "DNA-Damaging Agents Greatly Increase the Transduction of Nondividing Cells by Adeno-Associated Virus Vectors," December 1994, <i>J. Virol.</i> , 68(12):8282-8287.			
	B34	Alisky et al., "Transduction of Murine Cerebellar Neurons with Recombinant FIV and AAV5 Vectors," <i>Mol. Neurosci.</i> , August 2000, 11(1221):2669-2673.			
	B35	Alisky J.M. and Tolbert D.M., "Differential labeling of converging afferent pathways using biotinylated dextran amine and cholera toxin subunit B," 1994, <i>Journal of Neuroscience Methods</i> , 52:143-148.			
	B36	Allen, J.M., Halbert, C.L. and Miller, A.D., "Improved adeno-associated virus vector production with transfection of a single helper adenovirus gene, E4orf6," 2000, <i>Mol Ther</i> , 1:88-95.			
	B37	Arnberg, N., A. H. Kidd, K. Edlund, J. Nilsson, P. Pring-Akerblom, and G. Wadell, "Adenovirus type 37 binds to cell surface sialic acid through a charge-dependent interaction," 2002, <i>Virology</i> , 302:33-43.			
	B38	Atchison, R. W., B. C. Casto, and W. M. Hammon, "Adenovirus-Associated Defective Virus Particles," 1965, <i>Science</i> , 149:754-756.			
	B39	Auricchio et al., "A Single-Step Affinity Column for Purification of Serotype-5 Based Adeno-Associated Viral Vectors," October 2001, <i>Mol Ther</i> 4(4):372-374.			
	B40	Bachmann, P.A., M.D. Hoggan, E. Kurstak, J.L. Melnick, H.G. Pereira, P. Tattersall, and C. Vago, "Parvoviridae: second report," 1979, <i>Intervirology</i> , 11:248-254.			
	B41	Bajocchi G, Feldman SH, Crystal RG, Mastrangeli A., "Direct <i>in vivo</i> gene transfer to ependymal cells in the central nervous system using recombinant adenovirus vectors," 1993, <i>Nat Genet</i> , 3:229-234.			
	B42	Bantel-Schaal U, Delius H, Schmidt R, zur Hausen H., "Human adeno-associated virus type 5 is only distantly related to other known primate helper-dependent parvoviruses," 1999, <i>J Virol.</i> , 73(2):939-947.			
	B43	Bantel-Schaal U, zur Hausen H., "Characterization of the DNA of a defective human parvovirus isolated from a genital site," 1984, <i>Virology</i> , 134(1):52-63, XP009028974			
	B44	Bantel-Schaal, U. and M. Stohr, "Influence of adeno-associated virus on adherence and growth properties of normal cells," 1992, <i>J. Virol.</i> , 66:773-779.			
	B45	Bantel-Schaal, U., Hub, B. and Kartenbeck, J., "Endocytosis of adeno-associated virus type 5 leads to accumulation of virus particles in the Golgi compartment," 2002, <i>J Virol</i> 76:2340-2349.			
	B46	Bartlett JS, Kleinschmidt J., Boucher RC, and Samulski RJ, "Targeted adeno-associated virus vector transduction of nonpermissive cells mediated by a bispecific F(ab'gamma) <sub>2</sub> antibody," 1999, <i>Nat Biotechnol</i> , 17:181-186.			
	B47	Bartlett JS, Samulski RJ, McCown T.J., "Selective and rapid uptake of adeno-associated virus type 2 in brain," 1998, <i>Hum Gene Ther</i> , 9(8):1181-1186.			

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			First Named Inventor	Chiorini et al.
			Group Art Unit	1633
			Examiner Name	Kaushal, S.
	B48	Bartlett, J.S., Wilcher, R. and Samulski, R.J., "Infectious entry pathway of adeno-associated virus and adeno-associated virus vectors," 2000, <i>J Virol</i> , 74:2777-2785.		
	B49	Ben-Israel, H. and Kleinberger, T., "Adenovirus and cell cycle control," 2002, <i>Front Biosci</i> , 7:d1369-1395.		
	B50	Bergelson, JM, Cunningham JA, Droguett G., Kurt-Jones EA, Krithivas A., Hong JS, Horwitz MS, Crowell RL, and Finberg RW, "Isolation of a common receptor for Coxsackie B viruses and adenoviruses 2 and 5," 1997, <i>Science</i> , 275:1320-1323.		
	B51	Berns, K. I., "Parvoviridae: the viruses and their replication," In F. B. N., K. D. M., and H. P. M. (ed.), <i>Fields virology</i> , 3rd ed. Lippincott-Raven Publishers, Philadelphia, PA, p. 2173-2197.		
	B52	Blacklow, et al., "Serologic Evidence for Human Infection With Adenovirus-Associated Viruses," 1968, <i>J NCI</i> , 40(2):319-327.		
	B53	Blacklow, N.R., Hoggan, M.D. and Rowe, W.P. "Isolation of adenovirus-associated viruses from man," 1967, <i>Proc Natl Acad Sci U S A</i> , 58:1410-1415.		
	B54	Bomsel M, Alfsen A, "Entry of viruses through the epithelial barrier: pathogenic trickery," 2003, <i>Nat Rev Mol Cell Biol</i> , 4:57-68.		
	B55	Bomsel M, David V, "Mucosal gatekeepers: selecting HIV viruses for early infection," 2002, <i>Nat Med</i> , 8:114-116.		
	B56	Bossis, I. and Chiorini, J.A., "Cloning of an Avian Adeno-Associated Virus (AAAV) and Generation of Recombinant AAAV Particles," 2003, <i>J Virol</i> , 77(12):6799-6810.		
	B57	Burcin, M.M., O'Malley, B.W. and S.Y. Tsai, "A regulatory system for target gene expression," 1998, <i>Frontiers in Bioscience</i> , 3:c1-7.		
	B58	Carter, B. J., B. A. Antoni, and D. F. Klessig, "Adenovirus containing a deletion of the early region 2A gene allows growth of adeno-associated virus with decreased efficiency," 1992, <i>Virology</i> , 191:473-476.		
	B59	Carter, B. J., C. A. Laughlin, L. M. de la Maza, and M. Myers, "Adeno-associated virus autointerference," 1979, <i>Virology</i> , 92:449-462.		
	B60	Casto, B. C., R. W. Atchison, and W. M. Hammon, "Studies on the relationship between adeno-associated virus type I (AAV-1) and adenoviruses. I. Replication of AAV-1 in certain cell cultures and its effect on helper adenovirus," 1967a, <i>Virology</i> , 32:52-59.		
	B61	Casto, B. C., J. A. Armstrong, R. W. Atchison, and W. M. Hammon, "Studies on the relationship between adeno-associated virus type 1 (AAV-1) and adenoviruses. II. Inhibition of adenovirus plaques by AAV; its nature and specificity," 1967b, <i>Virology</i> , 33:452-458.		
	B62	Chang, L.S. and Shenk, T., "The adenovirus DNA-binding protein stimulates the rate of transcription directed by adenovirus and adeno-associated virus promoters," 1990, <i>J Virol</i> , 64:2103-2109.		
	B63	Chang, L.S., Y. Shi, and T. Shenk, "Adeno-associated virus P5 promoter contains an adenovirus E1A-inducible element and a binding site for the major late transcription factor," 1989, <i>J. Virol.</i> , 63:3479-3488.		
	B64	Chao H et al., "Several Log Increase in Therapeutic Transgene Delivery by Distinct Adeno-Associated Viral Serotype Vectors," 2000, <i>Molecular Therapy</i> , 2(6):619-623.		
	B65	Chejanovsky, N. and B.J. Carter, "Mutagenesis of an AUG codon in the adeno-associated virus rep gene: effects on viral DNA replication," 1989b, <i>Virology</i> , 173:120-128.		

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			Examiner Name	Kaushal, S.
	B66	Chejanovsky, N. and B.J. Carter, "Replication of a human parvovirus nonsense mutant in mammalian cells containing an inducible amber suppressor," 1989a, <i>Virology</i> , 171:239-247.		
	B67	Chiorini JA, Afione S, Kotin RM, "Adeno-associated virus (AAV) type 5 Rep protein cleaves a unique terminal resolution site compared with other AAV serotypes," 1999a May, <i>J Virol</i> , 73(5):4293-4298.		
	B68	Chiorini JA, Kim F, Yang L, Kotin RM, "Cloning and characterization of adeno-associated virus type 5," 1999b, Feb., <i>J Virol.</i> , 73(2):1309-1319, XP-002125035		
	B69	Chiorini, J.A., C.M. Wendtner, E. Urcelay, B. Safer, M. Hallek, and R.M. Kotin, "High-efficiency transfer of the T cell co-stimulatory molecule B7-2 to lymphoid cells using high-titer recombinant adeno-associated virus vectors," 1995, <i>Human Gene Therapy</i> , 6:1531-1541.		
	B70	Chiorini, J.A., L. Yang, B. Safer, and R.M. Kotin, "Determination of adeno-associated virus Rep68 and Rep78 binding sites by random sequence oligonucleotide selection," 1995, <i>J. Virol.</i> , 69:7334-7338.		
	B71	Chiorini, J.A., M.D. Weitzman, R.A. Owens, E. Urcelay, B. Safer, and R.M. Kotin, "Biologically active Rep proteins of adeno-associated virus type 2 produced as fusion proteins in <i>Escherichia coli</i> ," 1994a, <i>J. Virol.</i> , 68:797-804.		
	B72	Chiorini, J.A., S.M. Wiener, R.M. Kotin, R.A. Owens, SRM Kyöstiö, and B. Safer, "Sequence requirements for stable binding and function of Rep68 on the adeno-associated virus type 2 inverted terminal repeats," 1994b, <i>J. Virol.</i> , 68:7448-7457.		
	B73	Clark et al., "Highly Purified Recombinant Adeno-Associated Virus Vectors are Biologically Active and Free of Detectable Helper and Wild-Type Viruses," 1999, <i>Hum. Gene Ther.</i> 10:1031-1039.		
	B74	Cohen-Salmon et al., "Targeted ablation of connexin26 in the inner ear epithelial gap junction network causes hearing impairment and cell death," 2002, <i>Curr Biol</i> , 12:1106-1111.		
	B75	Coria et al., "Isolation and identification of a bovine adenovirus type 3 with an adenovirus-associated virus", 1978, <i>American Journal of Veterinary Research</i> , 39(12):1904-1906, XP009050511.		
	B76	Crystal RG, "Transfer of genes to humans: early lessons and obstacles to success," 1995, <i>Science</i> , 270(5235):404-410.		
	B77	Database EMBL, Entry GGACTAA, GenBank Accession number M61166, 3/27/1991, XP002125220		
	B78	Davidson BL, Doran SE, Shewach DS, Latta JM, Hartman JW, Roessler BJ., "Expression of <i>Escherichia coli</i> beta-galactosidase and rat HPRT in the CNS of <i>Macaca mulatta</i> following adenoviral mediated gene transfer," 1994, <i>Exp Neurol</i> , 125:258-267.		
	B79	Deonarain MP, "Ligand-targeted receptor-mediated vectors for gene delivery," <i>Molecular Conjugate Vectors</i> , 1998, 8(1):53-69.		
	B80	Derby, M. L., M. Sena-Esteves, et al., "Gene transfer into the mammalian inner ear using HSV-1 and vaccinia virus vectors," 1999, <i>Hear Res</i> 134(1-2):1-8.		
	B81	Di Pasquale, G., Rzedzinska, A., Schneider, M.E., Bossis, I., Chiorini, J.A., Kachar, B., "A novel bovine virus efficiently transduces inner ear neuroepithelial cells," 2005, <i>Molecular Therapy</i> , Academic Press, 11(6):849-855, XP004908862.		
	B82	Di Pasquale, G., and J. A. Chiorini, "PKA/PrKX activity is a modulator of AAV/adenovirus interaction," 2003, <i>EMBO J</i> , 22:1716-1724.		

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	B83	Di Pasquale, G., B. L. Davidson, et al., "Identification of PDGFR as a receptor for AAV-5 transduction," 2003, <i>Nat Med</i> 9(10):1306-1312.	
	B84	Dixit, M., M.S. Webb, W.C. Smart, and S. Ohi, "Construction and expression of a recombinant adeno-associated virus that harbors a human <i>beta</i> -globin-encoding cDNA," 1991, <i>Gene</i> 104:253-257.	
	B85	Doll RF, Crandall JE, Dyer CA, Aucoin JM, Smith FI., "Comparison of promoter strengths on gene delivery into mammalian brain cells using AAV vectors," 1996, <i>Gene Ther</i> , 3:437-447.	
	B86	Duan, D., Yue Y., Yan Z., McCray PB Jr, and Engelhardt JF., "Polarity influences the efficiency of recombinant adenoassociated virus infection in differentiated airway epithelia," 1998, <i>Hum Gene Ther</i> , 9:2761-2776.	
	B87	During MJ, Symes CW, Lawlor PA, Lin J, Dunning J, Fitzsimons HL, Poulsen D, Leone P, Xu R, Dicker BL, Lipski J, Young D, "An oral vaccine against NMDAR1 with efficacy in experimental stroke and epilepsy," 2000, <i>Science</i> , 287:1453-1460.	
	B88	During MJ, Xu R, Young D, Kaplitt MG, Sherwin RS, Leone P., "Peroral gene therapy of lactose intolerance using an adeno-associated virus vector," 1998, <i>Nat Med</i> , 4(10):1131-1135.	
	B89	During MJ, Leone P, "Adeno-associated virus vectors for gene therapy of neurodegenerative disorders," 1995-96, <i>Clin Neurosci</i> , 3(5):292-300, XP-002125034	
	B90	Erles, K., Sebokova, P. and Schlehofer, J.R., "Update on the prevalence of serum antibodies (IgG and IgM) to adeno-associated virus (AAV)," 1999, <i>J Med Virol</i> , 59:406-411.	
	B91	Fan D-S, Ogawa M, Fujimoto K-I, Ikeguchi K, Ogasawara Y, Urabe M, Nishizawa M, Nakano I, Yoshida M, Nagatsu I, Ichinose H, Nagatsu T, Kurtzman GJ, Ozawa K, "Behavioral recovery in 6-hydroxydopamine-lesioned rats by cotransduction of striatum with tyrosine hydroxylase and aromatic L-amino acid decarboxylase genes using two separate adeno-associated virus vectors," 1998, <i>Hum Gene Ther</i> , 9:2527-2535.	
	B92	Fisher, KJ, Jooss K., Alston J., Yang Y., Haecker SE, High K., Pathak R., Raper SE, and Wilson JM, "Recombinant adeno-associated virus for muscle directed gene therapy," 1997, <i>Nat Med</i> , 3:306-312.	
	B93	Fisher, R.E., H.D. Mayor, "The evolution of defective and autonomous parvoviruses," 1991, <i>J Theor Biol</i> 149:429-439.	
	B94	Flannery et al., "Efficient Photoreceptor-targeted Gene Expression <i>in vivo</i> by Recombinant Adeno-Associated Virus," 1997, <i>Proc Natl Acad Sci USA</i> , 94:6916-6921.	
	B95	Flotte TR, Solow R, Owens RA, Afione S, Zeitlin PL, Carter BJ, "Gene expression from adeno-associated virus vectors in airway epithelial cells," 1992, <i>Am J Respir Cell Mol Biol</i> , 7(3):349-356; XP000609213	
	B96	Flotte, T.R., S.A. Afione, C. Conrad, S.A. McGrath, R. Solow, H. Oka, P.L. Zeitlin, W.B. Guggino, and B.J. Carter, "Stable <i>in vivo</i> expression of the cystic fibrosis transmembrane conductance regulator with an adeno-associated virus vector," 1993, <i>Proc. Natl. Acad. Sci.</i> , 90:10613-10617.	
	B97	Flotte, T.R., S.A. Afione, R. Solow, M.L. Drumm, D. Markakis, W.B. Guggino, P.L. Zeitlin, and B.J. Carter, "Expression of the cystic fibrosis transmembrane conductance regulator from a novel adeno-associated virus promoter," 1993, <i>J Biol Chem</i> , 268:3781-3790.	
	B98	Frolenkov GI, Belyantseva IA, Friedman TB, Griffith AJ, "Genetic insights into the morphogenesis of inner ear hair cells," 2004, <i>Nat Rev Genet</i> , 5:489-498.	

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	B99	Gao, G., L. H. Vandenberghe, M. R. Alvira, Y. Lu, R. Calcedo, X. Zhou, and J. M. Wilson, "Clades of Adeno-associated viruses are widely disseminated in human tissues," 2004, <i>J Virol</i> , 78:6381-6388.				
	B100	Gao, G.P., Alvira, M.R., Wang, L., Calcedo, R., Johnston, J. and Wilson, J.M., "Novel adeno-associated viruses from rhesus monkeys as vectors for human gene therapy," 2002, <i>Proc Natl Acad Sci USA</i> , 99:11854-11859.				
	B101	GenBank Accession number AY186198				
	B102	Georg-Fries B, Biederlack S, Wolf J, zur Hausen H, "Analysis of proteins, helper dependence, and seroepidemiology of a new human parvovirus," 1984, <i>Virology</i> , 134(1):64-71, XP002027460.				
	B103	Ghodsi A., Stein C., Derksen T., Martins I., Anderson RD, & Davidson BL, "Systemic hyperosmolality improves <i>beta</i> -glucuronidase distribution and pathology in murine MPS VII brain following intraventricular gene transfer," 1999, <i>Exp Neurol</i> , 160:109-116.				
	B104	Ghodsi A., Stein, C., Derksen T., Yang, G., Anderson R.D., Davidson B.L., "Extensive <i>beta</i> -glucuronidase activity in murine central nervous system after adenovirus-mediated gene transfer to brain," 1998, <i>Hum Gene Ther</i> , 9:2331-2340.				
	B105	Girod A., Ried M., Wobus C., Lahm H., Leike K., Kleinschmidt J., Deleage G., and Hallek M., "Genetic capsid modifications allow efficient re-targeting of adeno-associated virus type 2," 1999, <i>Nat Med</i> , 5:1052-1056.				
	B106	Grimm, D. and M. A. Kay, "From virus evolution to vector revolution: use of naturally occurring serotypes of adeno-associated virus (AAV) as novel vectors for human gene therapy," 2003, <i>Curr Gene Ther</i> , 3(4):281-304.				
	B107	Grimm D and Kern A, Rittner K Kleinschmidt JA, "Novel Tools for Production and Purification of Recombinant Adenoassociated Virus Vectors," 1998, <i>Human Gene Therapy</i> , 9:2745-2760.				
	B108	Guy J., Qi X., Muzyczka N., and Hauswirth WW, "Reporter expression persists 1 year after adeno-associated virus-mediated gene transfer to the optic nerve," 1999, <i>Arch Ophthalmol</i> , 117:929-937.				
	B109	Halbert CL, Standaert TA, Aitken ML, Alexander IE, Russell DW, and Miller AD, "Transduction by adeno-associated virus vectors in the rabbit airway: efficiency, persistence, and readministration," 1997, <i>J. Virol.</i> , 71:5932-5941.				
	B110	Halbert, C. L., J. M. Allen, and A. D. Miller, "Adeno-associated virus type 6 (AAV6) vectors mediate efficient transduction of airway epithelial cells in mouse lungs compared to that of AAV2 vectors," 2001, <i>J Virol</i> , 75:6615-6624.				
	B111	He, D. Z., J. Zheng, et al., "Development of acetylcholine receptors in cultured outer hair cells," 2001, <i>Hear Res</i> 162(1-2):113-125.				
	B112	Hehir K.M., Armentano D., Cardoza L.M., Choquette T.L., Berthelette P.B., White G.A., Couture L.A., Everton M.B., Keegan J., Martin J.M., Pratt D.A., Smith M.P., Smith A.E., Wadsworth S.C., "Molecular characterization of replication-competent variants of adenovirus vectors and genome modifications to prevent their occurrence," 1996, <i>J Virol</i> , 70(12):8459-8467.				
	B113	Heister, T., Heid, I. Ackermann, M., Fraefel, C., "Herpes simplex virus type 1/adeno-associated virus hybrid vectors mediate site-specific integration at the adeno-associated virus preintegration site, AAVS1, on human chromosome 19," 2002 <i>J Virol</i> , 76(14):7163-7173.				

Examiner Signature:

Date Considered:

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		First Named Inventor	Chiorini et al.
		Group Art Unit	1633
		Examiner Name	Kaushal, S.
	B114	Hermonat PL, Santin AD, De Greve J, De Rijcke M, Bishop BM, Han L, Mane M, Kokorina N, "Chromosomal latency and expression at map unit 96 of a wild-type plus adeno-associated virus (AAV)/Neo vector and identification of p81, a new AAV transcriptional promoter," 1999 Nov-Dec, <i>J Hum Virol.</i> , 2(6):359-368.	
	B115	Hermonat, PL and N Muzyczka, "Use of adeno-associated virus as a mammalian DNA cloning vector: transduction of neomycin resistance into mammalian tissue culture cells," 1984, <i>Proc Natl Acad Sci USA</i> , 81:6466-6470.	
	B116	Hermonat, P.L., M.A. Labow, R. Wright, K.I. Berns, and N. Muzyczka, "Genetics of adeno-associated virus: isolation and preliminary characterization of adeno-associated virus type 2 mutants," 1984, <i>J. Virol.</i> , 51:329-339.	
	B117	Hoggan, M. D., N. R. Blacklow, and W. P. Rowe, "Studies of small DNA viruses found in various adenovirus preparations: physical, biological, and immunological characteristics," 1966, <i>Proc Natl Acad Sci USA</i> , 55:1467-1474.	
	B118	Hoggan, M.D., "Adenovirus associated viruses," 1970, <i>Prog Med Virol</i> , 12:211-239.	
	B119	Holt, J. R., "Viral-mediated gene transfer to study the molecular physiology of the Mammalian inner ear" 2002, <i>Audiol Neurotol</i> , 7(3):157-160.	
	B120	Holt, J. R., D. C. Johns, et al., "Functional expression of exogenous proteins in mammalian sensory hair cells infected with adenoviral vectors," 1999, <i>J Neurophysiol</i> , 81(4):1881-1888.	
	B121	Hsueh Y-P, Sheng M., "Regulated expression and subcellular localization of syndecan heparan sulfate proteoglycans and the syndecan-binding protein CASK/LIN-2 during rat brain development," 1999, <i>J Neurosci</i> , 19(17):7415-7425.	
	B122	Hsueh Y-P, Yang F-C, Kharazia V, Naisbitt S, Cohen AR, Weinberg RJ, Sheng M, "Direct interaction of CASK/LIN-2 and syndecan heparan sulfate proteoglycan and their overlapping distribution in neuronal synapses," 1998, <i>J Cell Biol</i> , 142(1):139-151.	
	B123	Hull, R. N., J. R. Minner, and J. W. Smith, "New viral agents recovered from tissue cultures of monkey kidney cells. I. Origin and properties of cytopathogenic agents S.V.1, S.V.2, S.V.4, S.V.5, S.V.6, S.V.11, S.V.12 and S.V.15," 1956, <i>Am J Hyg</i> , 63:204-215.	
	B124	Hull, R. N., and J. R. Minner, "New viral agents recovered from tissue cultures of monkey kidney cells. II. Problems of isolation and identification," 1957, <i>Ann NY Acad Sci</i> , 67:413-423.	
	B125	Hull, R. N., J. R. Minner, and C. C. Mascoli, "New viral agents recovered from tissue cultures of monkey kidney cells. III. Recovery of additional agents both from cultures of monkey tissues and directly from tissues and excreta," 1958, <i>Am J Hyg</i> , 68:31-44.	
	B126	Hunter, L.A. and R.J. Samulski, "Colocalization of adeno-associated virus Rep and capsid proteins in the nuclei of infected cells," 1992, <i>J. Virol.</i> , 66:317-324.	
	B127	Im DS, Muzyczka N, "Partial purification of adeno-associated virus Rep78, Rep52, and Rep40 and their biochemical characterization," 1992 Feb, <i>J Virol.</i> , 66(2):1119-1128, XP002125031.	
	B128	Inglis VI, Jones MP, Tse AD, Easton AS, "Neutrophils both reduce and increase permeability in a cell culture model of the blood-brain barrier," 2004, <i>Brain Res</i> , 998(2):218-229.	
	B129	Ito, M. and H.D. Mayor, "Hemagglutinin of type 4 adeno-associated satellite virus," 1968, <i>J. Immunol</i> , 100:61-68.	

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	B130	Jaksch, M., K.D. Gerbitz, and C. Kilger, "Screening for mitochondrial DNA (mtDNA) point mutations using nonradioactive single strand conformation polymorphism (SSCP) analysis," 1995 <i>Clin. Biochem.</i> , 28:503-509	
	B131	Janik, J.E., M.M. Huston, K. Cho, and J.A. Rose, "Efficient syntheses of adeno-associated virus structural proteins requires both adenovirus DNA binding protein and VA I RNA," 1989, <i>Virology</i> 168:320-329.	
	B132	Jero J, Mhatre AN, Tseng CJ, Stern RE, Coling DE, Goldstein JA, Hong K, Zheng WW, Hoque AT, Lalwani AK., "Cochlear gene delivery through an intact round window membrane in mouse," 2001, <i>Hum Gene Ther</i> , 12(5):539-548.	
	B133	Johansson CB, Momma S, Clarke DL, Risling M, Lendahl U, Frisen J, "Identification of a neural stem cell in the adult mammalian central nervous system," 1999, <i>Cell</i> , 96(1):25-34.	
	B134	Kaludov et al., "Adeno-Associated Virus Serotype 4 (AAV4) and AAV5 Both Require Sialic Acid Binding for Hemagglutination and Efficient Transduction but Differ in Sialic Acid Linkage Specificity" 2001, <i>J. Virol.</i> , 75(15):6884-6893.	
	B135	Kaludov et al., "Scalable Purification of Adeno-Associated Virus Type 2, 4 or 5 Using Ion-Exchange Chromatography," 2002, <i>Human Gene Therapy</i> , 13:1235-1243.	
	B136	Kanzaki, S., K. Ogawa, et al., "Transgene expression in neonatal mouse inner ear explants mediated by first and advanced generation adenovirus vectors," 2002, <i>Hear Res</i> , 169(1-2):112-120.	
	B137	Kaplitt, M.G., P. Leone, R.J. Samulski, X. Xiao, D.W. Pfaff, K.L. O'Malley, and J.M. During, "Long-term gene expression and phenotypic correction using adeno-associated virus vectors in the mammalian brain," 1994, <i>Nature Genetics</i> , 8:148-154.	
	B138	Katano et al., "Identification of adeno-associated virus contamination in cell and virus stocks by PCR," April 2004, <i>Biotechniques</i> , 36(4):676-680, XP001207105.	
	B139	Kelsell, D.P., Dunlop, J., Stevens, H.P., Lench, N.J., Liang, J.N., Parry, G., Mueller, R.F., Leigh, I.M., "Connexin 26 mutations in hereditary non-syndromic sensorineural deafness," 1997, <i>Nature</i> , 387(6628):80-83	
	B140	Kern, A., K. Schmidt, C. Leder, O. J. Muller, C. E. Wobus, K. Bettinger, C. W. Von der Lieth, J. A. King, and J. A. Kleinschmidt, "Identification of a heparin-binding motif on adeno-associated virus type 2 capsids," 2003, <i>J Virol</i> , 77:11072-11081.	
	B141	Klein RL, Meyer EM, Peel AL, Zolotukhin S, Meyers C, Muzyczka N, King MA., "Neuron-specific transduction in the rat septohippocampal or nigrostriatal pathway by recombinant adeno-associated virus vectors," 1998, <i>Exp Neurol</i> , 150:183-194.	
	B142	Kondo M., Finkbeiner WE, and Widdicombe JH., "Simple technique for culture of highly differentiated cells from dog tracheal epithelium," 1991, <i>Am.J.Physiol</i> , 261:L106-L117.	
	B143	Kotin, R.M., M. Siniscalco, R.J. Samulski, X. Zhu, L. Hunter, C.A. Laughlin, S. McLaughlin, N. Muzyczka, M. Rocchi, and K.I. Berns, "Site-specific integration by adeno-associated virus," 1990, <i>Proc. Natl. Acad. Sci. USA</i> , 87:2211-2215.	
	B144	Kovacs P, Pinter M, Csaba G, "Effect of glucosphingolipid synthesis inhibitor (PPMP and PDMP) treatment on <i>Tetrahymena pyriformis</i> : data on the evolution of the signaling system," 2000, <i>Cell Biochem Funct</i> , 18(4):269-280.	

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	B145	Kyo S, Nakamura M, Kiyono T, Maida Y, Kanaya T, Tanaka M, Yatabe N, Inoue M, "Successful immortalization of endometrial glandular cells with normal structural and functional characteristics," 2003, <i>Am J Pathol</i> , 163(6):2259-2269.	
	B146	Kyostio SR, Owens RA, Weitzman MD, Antoni BA, Chejanovsky N, Carter BJ, "Analysis of adeno-associated virus (AAV) wild-type and mutant Rep proteins for their abilities to negatively regulate AAV p <sub>5</sub> and p <sub>19</sub> mRNA levels," 1994, <i>J Virol</i> , 68(5):2947-2957, XP-002125032.	
	B147	Laughlin, C.A., M.W. Myers, D.L. Risin, B.J. Carter, "Defective-interfering particles of the human parvovirus adeno-associated virus," 1979, <i>Virology</i> , 94:162-174.	
	B148	Laughlin, C.A., N. Jones, and B.J. Carter, "Effect of deletions in adenovirus early region 1 genes upon replication of adeno-associated virus," 1982, <i>J. Virol</i> , 41:868-876.	
	B149	Lee K, Kim YG, Jo EC, "Shuttle PCR-based cloning of the infectious adeno-associated virus type 5 genome," 2003, <i>J Virol Methods</i> , 111(2):75-84.	
	B150	Li J, Samulski RJ, Xiao X, "Role for Highly Regulated <i>rep</i> Gene Expression in Adeno-Associated Virus Vector Production," <i>J Virol</i> , 1997, 71(7):5236-5243	
	B151	Li Duan, M., T. Bordet, et al., "Adenoviral and adeno-associated viral vector mediated gene transfer in the guinea pig cochlea," 2002, <i>Neuroreport</i> , 13(10):1295-1299.	
	B152	Liang Y, Annan RS, Carr SA, Popp S, Mevissen M, Margolis RK, Margolis RU., "Mammalian homologues of the <i>Drosophila</i> slit protein are ligands of the heparan sulfate proteoglycan glypican-1 in brain," 1999, <i>J Biol Chem</i> , 274(25):17885-17892.	
	B153	Lo WD, Qu G, Sferra TJ, Clark R, Chen R, Johnson PR., "Adeno-associated virus-mediated gene transfer to the brain: duration and modulation of expression," 1999, <i>Hum Gene Ther</i> , 10:201-213.	
	B154	Luchsinger, E., Strobbe, R., Dekegel, D. and Wellemans, G., "Use of B-IV zonal rotor centrifugation as a simple tool for the separation of adeno-associated X 7 virus (AAVX 7) from helper adenoviruses," 1971, <i>Arch Gesamte Virusforsch</i> , 33:251-258.	
	B155	Luchsinger, E., Strobbe, R., Wellemans, G., Dekegel, D. and Sprecher-Goldberger, S., "Haemagglutinating adeno-associated virus (AAV) in association with bovine adenovirus type 1," 1970, <i>Brief report. Arch Gesamte Virusforsch</i> , 31:390-392.	
	B156	Luebke, A. E., J. D. Steiger, et al., "A modified adenovirus can transfect cochlear hair cells <i>in vivo</i> without compromising cochlear function," 2001, <i>Gene Ther</i> , 8(10):789-794.	
	B157	Luebke, A. E., P. K. Foster, et al., "Cochlear function and transgene expression in the guinea pig cochlea, using adenovirus- and adeno-associated virus-directed gene transfer," 2001, <i>Hum Gene Ther</i> , 12:773-781.	
	B158	Maeda Y, Ikeda U, Ogasawara Y, Urabe M, Takizawa T, Saito T, Colosi P, Kurtzman G, Shimada K, Ozawa K, "Gene transfer into vascular cells using adeno-associated virus (AAV) vectors," 1997, <i>Cardiovasc Res</i> , 35(3):514-521, XP-002125030	
	B159	Mandel RJ, Rendahl KG, Spratt SK, Snyder RO, Cohen LK, Leff SE., "Characterization of intrastriatal recombinant adeno-associated virus-mediated gene transfer of human tyrosine hydroxylase and human GTP-cyclohydrolase I in a rat model of Parkinson's disease," 1998, <i>J Neurosci</i> , 18(11):4271-4284.	
	B160	McCarty, D.M., J. Pereira, I. Zolotukhin, X. Zhou, J.H. Ryan, and N. Muzyczka, "Identification of linear DNA sequences that specifically bind the adeno-associated virus Rep protein," 1994, <i>J. Virol.</i> , 68:4988-4997.	

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			Examiner Name	Kaushal, S.
	B161	McCown TJ, Xiao X, Li J, Breese GR, Samulski RJ, "Differential and Persistent Expression Patterns of CNS Gene Transfer by an Adeno-Associated Virus (AAV) Vector," 1996, <i>Brain Res</i> , 713:99-107.		
	B162	McPherson, R. A., L. J. Rosenthal, and J. A. Rose, "Human cytomegalovirus completely helps adeno-associated virus replication," 1985, <i>Virology</i> , 147:217-222.		
	B163	Mendelson, E., J.P. Trempe, and B.J. Carter "Identification of the trans-acting Rep proteins of adeno-associated virus by antibodies to a synthetic oligopeptide," 1986, <i>J. Virol.</i> , 60:823-832.		
	B164	Meyers, C., Mane, M., Kokorina, N., Alam, S. and Hermonat, P.L., "Ubiquitous human adeno-associated virus type 2 autonomously replicates in differentiating keratinocytes of a normal skin model," 2000, <i>Virology</i> , 272:338-346.		
	B165	Mitrani E, Ziv T, Thomsen G, Shimoni Y, Melton DA, Bril A, "Activin can induce the formation of axial structures and is expressed in the hypoblast of the chick," 1990, <i>Cell</i> , 63(3):495-501.		
	B166	Mizukami, H., N.S. Young, and K.E. Brown, "Adeno-associated virus type 2 binds to a 150-kilodalton cell membrane glycoprotein," 1996, <i>Virology</i> , 217:124-130.		
	B167	Mori, S., L. Wang, T. Takeuchi, and T. Kanda, "Two novel adeno-associated viruses from cynomolgus monkey: pseudotyping characterization of capsid protein," 2004, <i>Virology</i> , 330:375-383.		
	B168	Mouw, M.B. and Pintel, D.J., "Adeno-associated virus RNAs appear in a temporal order and their splicing is stimulated during coinfection with adenovirus," 2000, <i>J Virol</i> , 74:9878-9888.		
	B169	Muzyczka, N, "Use of adeno-associated virus as a general transduction vector for mammalian cells," 1992, <i>Curr Top Microbiol Immunol</i> , 158:97-129.		
	B170	Myrup, A.C., Mohanty, S.B. and Hetrick, F.M., "Isolation and characterization of adeno-associated viruses from bovine adenovirus types 1 and 2," 1976, <i>Am J Vet Res</i> , 37(8):907-910.		
	B171	Naz, S., Griffith, A.J., Riazuddin, S., Hampton, L.L., Battey, J.F. Jr, Khan, S.N., Riazuddin, S., Wilcox, E.R., Friedman, T.B., "Mutations of <i>ESPN</i> cause autosomal recessive deafness and vestibular dysfunction," 2004, <i>J Med Genet</i> , 41(8):591-595.		
	B172	No D, Yao TP, Evans RM., "Ecdysone-inducible gene expression in mammalian cells and transgenic mice," 1996, <i>Proc Natl Acad Sci USA</i> , 93(8):3346-3351.		
	B173	Ogston, P., K. Raj, and P. Beard, "Productive replication of adeno-associated virus can occur in human papillomavirus type 16 (HPV-16) episome containing keratinocytes and is augmented by the HPV-16 E2 protein," 2000, <i>J Virol</i> , 74:3494-3504.		
	B174	Opie et al., "Identification of amino acid residues in the capsid proteins of adeno-associated virus type 2 that contribute to heparan sulfate proteoglycan binding," 2003, <i>J Virol</i> , 77:6995-7006.		
	B175	O'Riordan et al., "Scaleable Chromatographic Purification Process for Recombinant Adeno-Associated Virus (rAAV)," 2000, <i>J Gene Med</i> , 2:444-454.		
	B176	Parks, W.P., J.L. Melnick, R. Rongey, and H.D. Mayor, "Physical assay and growth cycle studies of a defective adeno-satellite virus," 1967, <i>J. Virol.</i> , 1:171-180.		
	B177	Podsakoff, G., K.K. Jr Wong, and S. Chatterjee, "Efficient gene transfer into nondividing cells by adeno-associated virus-based vectors," 1994, <i>J. Virol.</i> , 68:5656-5666.		

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	B178	Polishchuk R, Di Pentima A, Lippincott-Schwartz J, "Delivery of raft-associated, GPI-anchored proteins to the apical surface of polarized MDCK cells by a transcytotic pathway," 2004, <i>Nat Cell Biol</i> , 6(4):297-307.		
	B179	Prasad KM, Zhou C, Trempe JP, "Characterization of the Rep78/adeno-associated virus complex," 1997, <i>Virology</i> , 229(1):183-192, XP-002125033.		
	B180	Qing K, Mah C, Hansen J, Zhou S, Dwarki V, Srivastava A., "Human fibroblast growth factor receptor 1 is a co-receptor for infection by adeno-associated virus 2," 1999, <i>Nat Med</i> , 5(1):71-77.		
	B181	Qiu J, Brown KE., "Integrin $\alpha V\beta 5$ is not involved in adeno-associated virus type 2 (AAV2) infection," 1999, <i>Virology</i> , 264(2):436-440.		
	B182	Rabinowitz et al., "Cross-Packaging of a Single Adeno-Associated Virus (AAV) Type 2 Vector Genome into Multiple AAV Serotypes Enables Transduction with Broad Specificity," 2002, <i>J Virol</i> , 76(2):791-801, XP002247245.		
	B183	Rabinowitz JE, Bowles DE, Faust SM, Ledford JG, Cunningham SE, Samulski RJ., "Cross-dressing the virion: the transcapsidation of adeno-associated virus serotypes functionally defines subgroups," 2004, <i>J Virol</i> , 78(9):4421-4432.		
	B184	Reddy, V. S., P. Natarajan, B. Okerberg, K. Li, K. V. Damodaran, R. T. Morton, C. L. Brooks, 3rd, and J. E. Johnson, "Virus Particle Explorer (VIPER), a website for virus capsid structures and their computational analyses," 2001, <i>J Virol</i> , 75:11943-11947.		
	B185	Rich DP, Couture LA, Cardoza LM, Guiggio LM, Armentano D., Espino PC, Hehir K., Welsh MJ, Smith AE, and Gregory RJ, "Development and analysis of recombinant adenoviruses for gene therapy of cystic fibrosis," 1993, <i>Hum. Gene Ther.</i> , 4:461-476.		
	B186	Richardson, W. D., and H. Westphal, "Requirement for either early region 1a or early region 1b adenovirus gene products in the helper effect for adeno-associated virus," 1984, <i>J Virol</i> , 51:404-410.		
	B187	Rose, J.A., M.D. Hoggan, F. Koczot, and A.J. Shatkin, "Genetic relatedness studies with adenovirus-associated viruses," 1968, <i>J. Virol.</i> , 2:999-1005.		
	B188	Rosenfeld et al., "Adeno-associated viral vector gene transfer into leptomeningeal xenografts," 1997, <i>J Neuro-Oncology</i> , 34(2):139-144.		
	B189	Russell et al., "Adeno-Associated Virus Vectors Preferentially Transduce Cells in S Phase," 1994, <i>Proc. Natl. Acad. Sci. USA</i> , 91:8915-8919.		
	B190	Rutledge EA, Halbert CL, and Russell DW, "Infectious Clones and Vectors Derived from Adeno-Associated Virus (AAV) Serotypes other Than AAV Type 2," 1998, <i>J. Virol.</i> , 72(1):309-319.		
	B191	Ryan, J.H., S. Zolotukhin, and N. Muzyczka, "Sequence requirements for binding of Rep68 to the adeno-associated virus terminal repeats," 1996, <i>J. Virol.</i> , 70:1542-1553.		
	B192	Rzadzinska, A. K., M. E. Schneider, et al., "An actin molecular treadmill and myosins maintain stereocilia functional architecture and self-renewal," 2004, <i>J Cell Biol</i> , 164(6):887-897.		
	B193	Saffer, L. D., R. Gu, et al., "An RT-PCR analysis of mRNA for growth factor receptors in damaged and control sensory epithelia of rat utricles," 1996, <i>Hear Res</i> , 94(1-2):14-23.		
	B194	Samulski RJ, Chang LS, Shenk T, "Helper-free stocks of recombinant adeno-associated viruses: normal integration does not require viral gene expression," 1989, <i>J Virol.</i> , 63(9):3822-3828, XP000283071		

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	B195	Samulski, R. J., and T. Shenk, "Adenovirus E1B 55-M <sub>r</sub> polypeptide facilitates timely cytoplasmic accumulation of adeno-associated virus mRNAs," 1988, <i>J Virol</i> , 62:206-210.	
	B196	Samulski, R.J., K.I. Berns, M. Tan, and N. Muzyczka, "Cloning of adeno-associated virus into pBR322: rescue of intact virus from the recombinant plasmid in human cells," 1982, <i>Proc Natl Acad Sci USA</i> , 79:2077-2081.	
	B197	Sanes JR, JLR Rubenstein, and JF Nicolas, "Use of a recombinant retrovirus to study post-implantation cell lineage in mouse embryos," 1986, <i>EMBO J</i> , 5:3133-3142.	
	B198	Sanlioglu, S., Benson, P.K., Yang, J., Atkinson, E.M., Reynolds, T. and Engelhardt, J.F., "Endocytosis and nuclear trafficking of adeno-associated virus type 2 are controlled by rac1 and phosphatidylinositol-3 kinase activation," 2000, <i>J Virol</i> , 74:9184-9196.	
	B199	Schinkel AH, "P-Glycoprotein, a gatekeeper in the blood-brain barrier," 1999, <i>Adv Drug Deliv Rev</i> , 36:179-194.	
	B200	Schlehofer JR, Heilbronn R, Georg-Fries B, zur Hausen H, "Inhibition of initiator-induced SV40 gene amplification in SV40-transformed Chinese hamster cells by infection with a defective parvovirus," 1983, <i>Int J Cancer</i> , 32(5):591-595, XP009010321.	
	B201	Schlehofer, J. R., M. Ehrbar, and H. zur Hausen, "Vaccinia virus, herpes simplex virus, and carcinogens induce DNA amplification in a human cell line and support replication of a helpervirus dependent parvovirus," 1986, <i>Virology</i> , 152:110-117.	
	B202	Schmidt M, Grot E, Cervenka P, Wainer S, Buck C, Chiorini JA, "Identification and characterization of novel adeno-associated virus isolates in ATCC virus stocks," 2006, <i>J Virol</i> , 80(10):5082-5085.	
	B203	Schmidt et al., "Cloning and characterization of a bovine adeno-associated virus," 2004, <i>Journal of Virology</i> , 78(12):6509-6516, XP00233552.	
	B204	Schneider, M. E., I. A. Belyantseva, et al., "Rapid renewal of auditory hair bundles," 2002, <i>Nature</i> , 418(6900):837-838.	
	B205	Schwede, T., J. Kopp, N. Guex, and M. C. Peitsch, "SWISS-MODEL: An automated protein homology-modeling server," 2003, <i>Nucleic Acids Res</i> , 31:3381-3385.	
	B206	Seiler MP, Miller AD, Zabner J, Halbert CL, "Adeno-associated virus types 5 and 6 use distinct receptors for cell entry," 2006, <i>Hum Gene Ther</i> , 17:10-19.	
	B207	Seiler, M. P., C. L. Halbert, J. A. Chiorini, A. D. Miller, and J. Zabner, "AAV5 and AAV6 Mediate Gene Transfer to Human Airway Epithelia Via Different Receptors," 2002, <i>Mol Ther</i> , 5:S40.	
	B208	Senapathy, P., J.D. Tratschin, and B.J. Carter, "Replication of adeno-associated virus DNA. Complementation of naturally occurring rep- mutants by a wild-type genome or an ori- mutant and correction of terminal palindrome deletions," 1984, <i>J Mol Biol</i> 179:1-20.	
	B209	Shou, J., J. L. Zheng, et al., "Robust generation of new hair cells in the mature mammalian inner ear by adenoviral expression of <i>Hath1</i> ," 2003, <i>Mol Cell Neurosci</i> , 23(2):169-179.	
	B210	Smith, R. H., S. A. Afione, et al., "Transposase-mediated construction of an integrated adeno-associated virus type 5 helper plasmid," 2002, <i>Biotechniques</i> , 33(1):204-206,208,210-211.	

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			Filing Date	November 20, 2003
			First Named Inventor	Chiorini et al.
			Group Art Unit	1633
			Examiner Name	Kaushal, S.
	B211	Snyder RO, Miao CH, Patijn GA, Spratt SK, Danos O., Nagy D., Gown AM, Winther B., Meuse L., Cohen LK, Thompson AR, and Kay MA, "Persistent and therapeutic concentrations of human factor IX in mice after hepatic gene transfer of recombinant AAV vectors," 1997, <i>Nat. Genet.</i> , 16:270-276.		
	B212	Sobkowicz, H. M., J. M. Loftus, et al., "Tissue culture of the organ of Corti," 1993, <i>Acta Otolaryngol Suppl</i> , 502:3-36.		
	B213	Staecker H, Li D, O'Malley BW Jr, Van De Water TR., "Gene expression in the mammalian cochlea: a study of multiple vector systems," 2001, <i>Acta Otolaryngol</i> , 121(2):157-163.		
	B214	Stracker, T. H., G. D. Cassell, P. Ward, Y. M. Loo, B. van Breukelen, S. D. Carrington-Lawrence, R. K. Hamatake, P. C. van der Vliet, S. K. Weller, T. Melendy, and M. D. Weitzman, "The Rep protein of adeno-associated virus type 2 interacts with single-stranded DNA-binding proteins that enhance viral replication," 2004, <i>J Virol</i> , 78:441-453.		
	B215	Summerford C, Bartlett JS, Samulski RJ., " <i>AlphaVbeta5</i> integrin: a co-receptor for adeno-associated virus type 2 infection," 1999, <i>Nat Med</i> , 5(1):78-82.		
	B216	Summerford, C. and R. J. Samulski, "Membrane-associated heparan sulfate proteoglycan is a receptor for adeno-associated virus type 2 virions," 1998, <i>J Virol</i> , 72(2):1438-1445.		
	B217	Superti, F., M. L. Marziano, A. Tinari, and G. Donelli, "Effect of polyions on the infectivity of SA-11 rotavirus in LCC-MK2 cells," 1993, <i>Comp Immunol Microbiol Infect Dis</i> , 16:55-62.		
	B218	Suzuki, H., Y. Katori, et al., "Carbohydrate distribution in the living utricular macula of the guinea pig detected by lectins," 1995, <i>Hear Res</i> , 87(1-2):32-40.		
	B219	Teramoto, S., Bartlett JS, McCarty DXX, Samulski RJ, and Boucher RC, "Factors influencing adeno-associated virus-mediated gene transfer to human cystic fibrosis airway epithelial cells: comparison with adenovirus vectors," 1998, <i>J Virol</i> , 72:8904-8912.		
	B220	Thomas CE, Storm TA, Huang Z, Kay MA, "Rapid uncoating of vector genomes is the key to efficient liver transduction with pseudotyped adeno-associated virus vectors," 2004, <i>J Virol</i> , 78(6):3110-3122.		
	B221	Tratschin, J. D., M. H. West, T. Sandbank, and B. J. Carter, "A human parvovirus, adeno-associated virus, as a eucaryotic vector: transient expression and encapsidation of the procaryotic gene for chloramphenicol acetyltransferase," 1984, <i>Mol Cell Biol</i> , 4:2072-2081.		
	B222	Tratschin, J.D., I.L. Miller, and B.J. Carter, "Genetic analysis of adeno-associated virus: properties of deletion mutants constructed <i>in vitro</i> and evidence for an adeno-associated virus replication function," 1984, <i>J. Virol.</i> , 51:611-619.		
	B223	Trempe, J.P. and B.J. Carter, "Regulation of adeno-associated virus gene expression in 293 cells: control of mRNA abundance and translation," 1988, <i>J. Virol.</i> , 62:68-74.		
	B224	Trempe, J.P., E. Mendelson, and B.J. Carter, "Characterization of adeno-associated virus rep proteins in human cells by antibodies raised against rep expressed in <i>Escherichia coli</i> ," 1987, <i>Virology</i> , 161:18-28.		
	B225	Tuma PL and Hubbard AL, "Transcytosis: crossing cellular barriers," 2003, <i>Physiol Rev</i> , 83(3):871-932.		
	B226	Voutetakis A, Kok MR, Zheng C, Bossis I, Wang J, Cotrim AP, Marracino N, Goldsmith CM, Chiorini JA, Loh YP, Nieman LK, Baum BJ, "Reengineered salivary glands are stable endogenous bioreactors for systemic gene therapeutics," 2004, <i>Proc Natl Acad Sci USA</i> , 101(9):3053-3058.		

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		Examiner Name	Kaushal, S.
	B227	Walsh, C.E., J.M. Liu, X. Xiao, N.S. Young, A.W. Nienhuis, and R.J. Samulski, "Regulated high level expression of a human gamma-globin gene introduced into erythroid cells by an adeno-associated virus vector," 1992, <i>Proc Natl Acad Sci USA</i> , 89:7257-7261.	
	B228	Walters, R.W., Yi, S.M., Keshavjee, S., Brown, K.E., Welsh, M.J., Chiorini, J.A. and Zabner, J., "Binding of adeno-associated virus type 5 to 2,3-linked sialic acid is required for gene transfer," 2001, <i>J Biol Chem</i> , 276:20610-20616.	
	B229	Walters, RW, Duan D., Engelhardt JF, and Welsh MJ., "Incorporation of adeno-associated virus in a calcium phosphate coprecipitate improves gene transfer to airway epithelia <i>in vitro</i> and <i>in vivo</i> ," 2000, <i>J. Virol.</i> , 74:535-540.	
	B230	Walters, RW, Grunst T., Bergelson JM, Finberg RW, Welsh MJ, and Zabner J., "Basolateral localization of fiber receptors limits adenovirus infection from the apical surface of airway epithelia," 1999, <i>J. Biol. Chem.</i> , 274:10219-10226.	
	B231	Walz, C., A. Deprez, T. Dupressoir, M. Durst, M. Rabreau, and J. R. Schlehofer, "Interaction of human papillomavirus type 16 and adeno associated virus type 2 co-infecting human cervical epithelium," 1997, <i>J Gen Virol</i> , 78(Pt 6):1441-1452.	
	B232	Wang G., Davidson BL, Melchert P., Slepishkin VA, van Es HH, Bodner M., Jolly DJ, and McCray PB Jr., "Influence of cell polarity on retrovirus-mediated gene transfer to differentiated human airway epithelia," 1998, <i>Journal of Virology</i> , 72:9818-9826.	
	B233	Wang, X. S., and A. Srivastava, "Rescue and autonomous replication of adeno-associated virus type 2 genomes containing Rep-binding site mutations in the viral p5 promoter," 1998, <i>J Virol</i> , 72:4811-4818.	
	B234	Ward, P., F. B. Dean, M. E. O'Donnell, and K. I. Berns, "Role of the adenovirus DNA-binding protein in <i>in vitro</i> adeno-associated virus DNA replication," 1998, <i>J Virol</i> , 72:420-427.	
	B235	Weindler, F. W., and R. Heilbronn, "A subset of herpes simplex virus replication genes provides helper functions for productive adeno-associated virus replication," 1991, <i>J Virol</i> , 65:2476-2483.	
	B236	Winocour, E., M.F. Callahan, and E. Huberman, "Perturbation of the cell cycle by adeno-associated virus," 1988, <i>Virology</i> , 167:393-399.	
	B237	Xiao, W., N. Chirmule, S. C. Berta, B. McCullough, G. Gao, and J. M. Wilson, "Gene therapy vectors based on adeno-associated virus type 1," 1999, <i>J Virol</i> , 73:3994-4003.	
	B238	Xiao et al., "Efficient Long-Term Gene Transfer into Muscle Tissue of Immunocompetent Mice by Adeno-Associated Virus Vector," 1996, <i>J. Virol.</i> , 70(11):8098-8108.	
	B239	Xiao Xm Li J, Samulski RJ, "Production of High-Titer Recombinant Adeno-Associated Virus Vectors in the Absence of Helper Adenovirus," 1997, <i>J Virol</i> , 72(3):2224-2232.	
	B240	Xie Q. and Chapman MS, "Canine parvovirus capsid structure, analyzed at 2.9 Å resolution," 1996, <i>J Mol Biol</i> , 264:497-520.	
	B241	Yalkinoglu, A.O., Heilbronn, R., Burkle, A., Schlehofer, J.R. and zur Hausen, H., "DNA amplification of adeno-associated virus as a response to cellular genotoxic stress," 1988, <i>Cancer Res</i> , 48:3123-3129.	
	B242	Yakobson, B., Hrynkó, T.A., Peak, M.J. and Winocour, E., "Replication of adeno-associated virus in cells irradiated with UV light at 254 nm," 1989, <i>J Virol</i> , 63:1023-1030.	

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	B243	Yamano, S., Huang, L.Y., Ding, C., Chiorini, J.A., Goldsmith, C.M., Wellner, R.B., Golding, B., Kotin, R.M., Scott, D.E. and Baum, B.J., "Recombinant adeno-associated virus serotype 2 vectors mediate stable interleukin 10 secretion from salivary glands into the bloodstream," 2002, <i>Hum Gene Ther</i> , 13:287-298.	
	B244	Yamaya, M., Finkbeiner WE, Chun SY, and Widdicombe JH, "Differentiated structure and function of cultures from human tracheal epithelium," 1992, <i>Am.J.Physiol</i> , 262:L713-L724.	
	B245	Zabner J, Seiler M, Walters R, Kotin RM, Fulgeras W, Davidson BL, Chiorini JA, "Adeno-associated virus type 5 (AAV5) but not AAV2 binds to the apical surfaces of airway epithelia and facilitates gene transfer," 2000, <i>J Virol.</i> , 74(8):3852-3858, XP002197205	
	B246	Zabner, J., Zeiher BG, Friedman E, and Welsh MJ, "Adenovirus-mediated gene transfer to ciliated airway epithelia requires prolonged incubation time," 1996, <i>J.Virol.</i> , 70:6994-7003.	
	B247	Zhang JR, Mostov KE, Lamm ME, Nanno M, Shimida S, Ohwaki M, Tuomanen E, "The polymeric immunoglobulin receptor translocates pneumococci across human nasopharyngeal epithelial cells," 2000, <i>Cell</i> , 102(6):827-837.	
	B248	Zhu ZB, Makhija SK, Lu B, Wang M, Rivera AA, Preuss M, Zhou F, Siegal GP, Alvarez RD, Curiel DT, "Transport across a polarized monolayer of Caco-2 cells by transferrin receptor-mediated adenovirus transcytosis," 2004, <i>Virology</i> , 325:116-128.	
	B249	Zolotukhin et al., "Recombinant Adeno-Associated Virus Purification using Novel Methods Improves Infectious Titer and Yield," 1999, <i>Gene Ther</i> , 6:973-985.	

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